O2Co O1PE

Serial Numb r: 09/426,783

CRF Processing Date: 11/9/99
Edited by: _____
Verified by: _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:
_____

☑ Edited the Current Application Data section with the actual current numbe **ENTERED** applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically:
_____

☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as_____ .

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically:
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☐ Other:
_____
_____
_____

*Examiner: The abov corrections must b communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

This Raw Listing contains the General
Information Section and up to the first 5 pages.

```
 1                                        SEQUENCE LISTING
 2                                                                    Does Not Comply
 3      (1)      General Information:                          Corrected Diskette Needed
 4
 5          (i) APPLICANT: Gonsalves, Dennis
 6                          Pang, Sheng-Zhi
 7
 8         (ii) TITLE OF INVENTION: TOMATO SPOTTED WILT VIRUS
 9
10        (iii) NUMBER OF SEQUENCES: 30
11
12         (iv) CORRESPONDENCE ADDRESS:
13                  (A) ADDRESSEE: Nixon Peabody LLP
14                  (B) STREET: Clinton Square, P.O. Box 1051
15                  (C) CITY: Rochester
16                  (D) STATE: New York
17                  (E) COUNTRY: U.S.A.
18                  (F) ZIP: 14603
19
20          (v) COMPUTER READABLE FORM:
21                  (A) MEDIUM TYPE: Floppy disk
22                  (B) COMPUTER: IBM PC compatible
23                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
24                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
25
26         (vi) CURRENT APPLICATION DATA:
-->  27                  (A) APPLICATION NUMBER: US 08/495,484
28                  (B) FILING DATE: 27-JAN-1994
29                  (C) CLASSIFICATION:                    (vii) PRIOR APP DATA!
30
31      (viii) ATTORNEY/AGENT INFORMATION:
32                  (A) NAME: Goldman, Michael L.
33                  (B) REGISTRATION NUMBER: 30,727
34                  (C) REFERENCE/DOCKET NUMBER: 19603/10303
35
36         (ix) TELECOMMUNICATION INFORMATION:
37                  (A) TELEPHONE: (716) 263-1304
38                  (B) TELEFAX: (716) 263-1600
39
40
41      (2) INFORMATION FOR SEQ ID NO:1:
42
43          (i) SEQUENCE CHARACTERISTICS:
44                  (A) LENGTH: 25 base pairs
45                  (B) TYPE: nucleic acid
46                  (C) STRANDEDNESS: single
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47          (D) TOPOLOGY: linear
48
49      (ii) MOLECULE TYPE: DNA (genomic)
50
51
52
53
54      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
55
56  AGCAGGCAAA ACTCGCAGAA CTTGC                                        25
57
58  (2) INFORMATION FOR SEQ ID NO:2:
59
60      (i) SEQUENCE CHARACTERISTICS:
61          (A) LENGTH: 25 base pairs
62          (B) TYPE: nucleic acid
63          (C) STRANDEDNESS: single
64          (D) TOPOLOGY: linear
65
66      (ii) MOLECULE TYPE: DNA (genomic)
67
68
69
70
71      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
72
73  GCAAGTTCTG CGAGTTTTGC CTGCT                                        25
74
75  (2) INFORMATION FOR SEQ ID NO:3:
76
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 32 base pairs
79          (B) TYPE: nucleic acid
80          (C) STRANDEDNESS: single
81          (D) TOPOLOGY: linear
82
83      (ii) MOLECULE TYPE: DNA (genomic)
84
85
86
87
88      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
89
90  AGCTAACCAT GGTTAAGCTC ACTAAGGAAA GC                                32
91
92  (2) INFORMATION FOR SEQ ID NO:4:
93
94      (i) SEQUENCE CHARACTERISTICS:
95          (A) LENGTH: 32 base pairs
96          (B) TYPE: nucleic acid
97          (C) STRANDEDNESS: single
98          (D) TOPOLOGY: linear
99
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100        (ii) MOLECULE TYPE: DNA (genomic)
101
102
103
104
105        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
106
107  AGCATTCCAT GGTTAACACA CTAAGCAAGC AC                                  32
108
109  (2) INFORMATION FOR SEQ ID NO:5:
110
111        (i) SEQUENCE CHARACTERISTICS:
112            (A) LENGTH: 2216 base pairs
113            (B) TYPE: nucleic acid
114            (C) STRANDEDNESS: single
115            (D) TOPOLOGY: linear
116
117        (ii) MOLECULE TYPE: DNA (genomic)
118
119
120
121
122        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
123
124  CAAGTTGAAA GCAACAACAG AACTGTAAAT TCTCTTGCAG TGAAATCTCT GCTCATGTCA       60
125
126  GCAGAAAACA ACATCATGCC TAACTCTCAA GCTTCCACTG ATTCTCATTT CAAGCTGAGC      120
127
128  CTCTGGCTAA GGGTTCCAAA GGTTTTGAAG CAGGTTTCCA TTCAGAAATT GTTCAAGGTT      180
129
130  GCAGGAGATG AAACAAACAA AACATTTTAT TTATCTATTG CCTGCATTCC AAACCATAAC      240
131
132  AGTGTTGAGA CAGCTTTAAA CATTACTGTT ATTTGCAAGC ATCAGCTCCC AATTCGCAAA      300
133
134  TGCAAAGCTC CTTTTGAATT ATCAATGATG TTTTCTGATT TAAAGGAGCC TTACAACATT      360
135
136  GTTCATGACC CTTCATACCC CAAAGGATCG GTTCCAATGC TCTGGCTCGA AACTCACACA      420
137
138  TCTTTGCACA AGTTCTTTGC AACTAACTTG CAAGAAGATG TAATCATCTA CACTTTGAAC      480
139
140  AACCTTGAGC TAACTCCTGG AAAGTTAGAT TTAGGTGAAA GAACCTTGAA TTACAGTGAA      540
141
142  GATGCCTACA AAAGGAAATA TTTCCTTTCA AAAACACTTG AATGTCTTCC ATCTAACACA      600
143
144  CAAACTATGT CTTACTTAGA CAGCATCCAA ATCCCTTCAT GGAAGATAGA CTTTGCCAGA      660
145
146  GGAGAAATTA AAATTTCTCC ACAATCTATT TCAGTTGCAA AATCTTTGTT AAAGCTTGAT      720
147
148  TTAAGCGGGA TCAAAAAGAA AGAATCTAAG GTTAAGGAAG CGTATGCTTC AGGATCAAAA      780
149
150  TAATCTTGCT TTGTCCAGCT TTTTCTAATT ATGTTATGTT TATTTTCTTT CTTTACTTAT      840
151
152  AATTATTTCT CTGTTTGTCA TCTCTTTCAA ATTCCTCCTG TCTAGTAGAA ACCATAAAAA      900
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153
154    CAAAAAATAA AAATGAAAAT AAAATTAAAA TAAAATAAAA TCAAAAAATG AAATAAAAAC        960
155
156    AACAAAAAAT TAAAAAACGA AAAACCAAAA AGACCCGAAA GGGACCAATT TGGCCAAATT       1020
157
158    TGGGTTTTGT TTTTGTTTTT TGTTTTTTGT TTTTTATTTT TTATTTTATT TTTATTTTAT       1080
159
160    TTTATTTTTA TTTTATTTTT ATTTTATTTA TTTTTTGTTT TCGTTGTTTT TGTTATTTTA       1140
161
162    TTATTTATTA AGCACAACAC ACAGAAAGCA AACTTTAATT AAACACACTT ATTTAAAATT       1200
163
164    TAACACACTA AGCAAGCACA AGCAATAAAG ATAAAGAAAG CTTTATATAT TTATAGGCTT       1260
165
166    TTTTATAATT TAACTTACAG CTGCTTTCAA GCAAGTTCTG CGAGTTTTGC CTGCTTTTTA       1320
167
168    ACCCCGAACA TTTCATAGAA CTTGTTAAGA GTTTCACTGT AATGTTCCAT AGCAACACTC       1380
169
170    CCTTTAGCAT TAGGATTGCT GGAGCTAAGT ATAGCAGCAT ACTCTTTCCC CTTCTTCACC       1440
171
172    TGATCTTCAT TCATTTCAAA TGCTTTGCTT TTCAGCACAG TGCAAACTTT TCCTAAGGCT       1500
173
174    TCCTTGGTGT CATACTTCTT TGGGTCGATC CCGAGGTCCT TGTATTTTGC ATCCTGATAT       1560
175
176    ATAGCCAAGA CAACACTGAT CATCTCAAAG CTATCAACTG AAGCAATAAG AGGTAAGCTA       1620
177
178    CCTCCCAGCA TTATGGCAAG TCTCACAGAC TTTGCATCAT CGAGAGGTAA TCCATAGGCT       1680
179
180    TGAATCAAAG GATGGGAAGC AATCTTAGAT TTGATAGTAT TGAGATTCTC AGAATTCCCA       1740
181
182    GTTTCTTCAA CAAGCCTGAC CCTGATCAAG CTATCAAGCC TTCTGAAGGT CATGTCAGTG       1800
183
184    CCTCCAATCC TGTCTGAAGT TTTCTTTATG GTAATTTTAC CAAAAGTAAA ATCGCTTTGC       1860
185
186    TTAATAACCT TCATTATGCT CTGACGATTC TTTAGGAATG TCAGACATGA AATAACGCTC       1920
187
188    ATCTTCTTGA TCTGGTCGAT GTTTTCCAGA CAAAAAGTCT TGAAGTTGAA TGCTACCAGA       1980
189
190    TTCTGATCTT CCTCAAACTC AAGGTCTTTG CCTTGTGTCA ACAAAGCAAC AATGCTTTCC       2040
191
192    TTAGTGAGCT TAACCTTAGA CATGATGATC GTAAAAGTTG TTATATGCTT TGACCGTATG       2100
193
194    TAACTCAAGG TGCGAAAGTG CAACTCTGTA TCCCGCAGTC GTTTCTTAGG TTCTTAATGT       2160
195
196    GATGATTTGT AAGACTGAGT GTTAAGGTAT GAACACAAAA TTGACACGAT TGCTCT          2216
197
198    (2) INFORMATION FOR SEQ ID NO:6:
199
200        (i) SEQUENCE CHARACTERISTICS:
201            (A) LENGTH: 1709 base pairs
202            (B) TYPE: nucleic acid
203            (C) STRANDEDNESS: single
204            (D) TOPOLOGY: linear
205
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206        (ii) MOLECULE TYPE: DNA (genomic)
207
208
209
210
211        (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
212
213   AAATTCTCTT GCAGTGAAAT CTCTGCTCAT GTTAGCAGAA AACAACATCA TGCCTAACTC        60
214
215   TCAAGCTTTT GTCAAAGCTT CTACTGATTC TAATTTCAAG CTGAGCCTCT GGCTAAGGGT       120
216
217   TCCAAAGGTT TTGAAGCAGA TTTCCATTCA GAAATTGTTC AAGGTTGCAG GAGATGAAAC       180
218
219   AAATAAAACA TTTTATTTAT CTATTGCCTG CATTCCAAAC CATAACAGTG TTGAGACAGC       240
220
221   TTTAAACATT ACTGTTATTT GCAAGCATCA GCTCCCAATT CGTAAATGTA AAACTCCTTT       300
222
223   TGAATTATCA ATGATGTTTT CTGATTTAAA GGAGCCTTAC AACATTATTC ATGATCCTTC       360
224
225   ATATCCCCAA AGGATTGTTC ATGCTCTGCT TGAAACTCAC ACATCTTTTG CACAAGTTCT       420
226
227   TTGCAACAAC TTGCAAGAAG ATGTGATCAT CTACACCTTG AACAACCATG AGCTAACTCC       480
228
229   TGGAAAGTTA GATTTAGGTG AAATAACTTT GAATTACAAT GAAGACGCCT ACAAAAGGAA       540
230
231   ATATTTCCTT TCAAAAACAC TTGAATGTCT TCCATCTAAC ATACAAACTA TGTCTTATTT       600
232
233   AGACAGCATC CAAATCCCTT CCTGGAAGAT AGACTTTGCC AGGGGAGAAA TTAAAATTTC       660
234
235   TCCACAATCT ATTTCAGTTG CAAAATCTTT GTTAAATCTT GATTTAAGCG GGATTAAAAA       720
236
237   GAAAGAATCT AAGATTAAGG AAGCATATGC TTCAGGATCA AAATGATCTT GCTGTGTCCA       780
238
239   GCTTTTTCTA ATTATGTTAT GTTTATTTTC TTTCTTTACT TATAATTATT TTTCTGTTTG       840
240
241   TCATTTCTTT CAAATTCCTC CTGTCTAGTA GAAACCATAA AAACAAAAAT AAAAATAAAA       900
242
243   TAAAATCAAA ATAAAATAAA AATCAAAAAA TGAAATAAAA GCAACAAAAA AATTAAAAAA       960
244
245   CAAAAAACCA AAAAGATCC CGAAAGGACA ATTTTGGCCA AATTTGGGGT TTGTTTTTGT      1020
246
247   TTTTTGTTTT TTTGTTTTTT GTTTTTATTT TTATTTTTAT TTTTATTTTT ATTTTATTTT     1080
248
249   ATTTTATGTT TTTGTTGTTT TTGTTATTTT GTTATTTATT AAGCACAACA CACAGAAAGC     1140
250
251   AAACTTTAAT TAAACACACT TATTTAAAAT TTAACACACT AAGCAAGCAC AAACAATAAA     1200
252
253   GATAAAGAAA GCTTTATATA TTTATAGGCT TTTTTATAAT TTAACTTACA GCTGCTTTTA     1260
254
255   AGCAAGTTCT GTGAGTTTTG CCTGTTTTTT AACCCCAAAC ATTTCATAGA ACTTGTTAAG     1320
256
257   GGTTTCACTG TAATGTTCCA TAGCAATACT TCCTTTAGCA TTAGGATTGC TGGAGCTAAG     1380
258
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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION   *US/09/426,783*

INPUT SET: S33895.raw

Line	Error	Original Text
27	Wrong application Serial Number	(A) APPLICATION NUMBER: US 08/495,484